FIG. 1

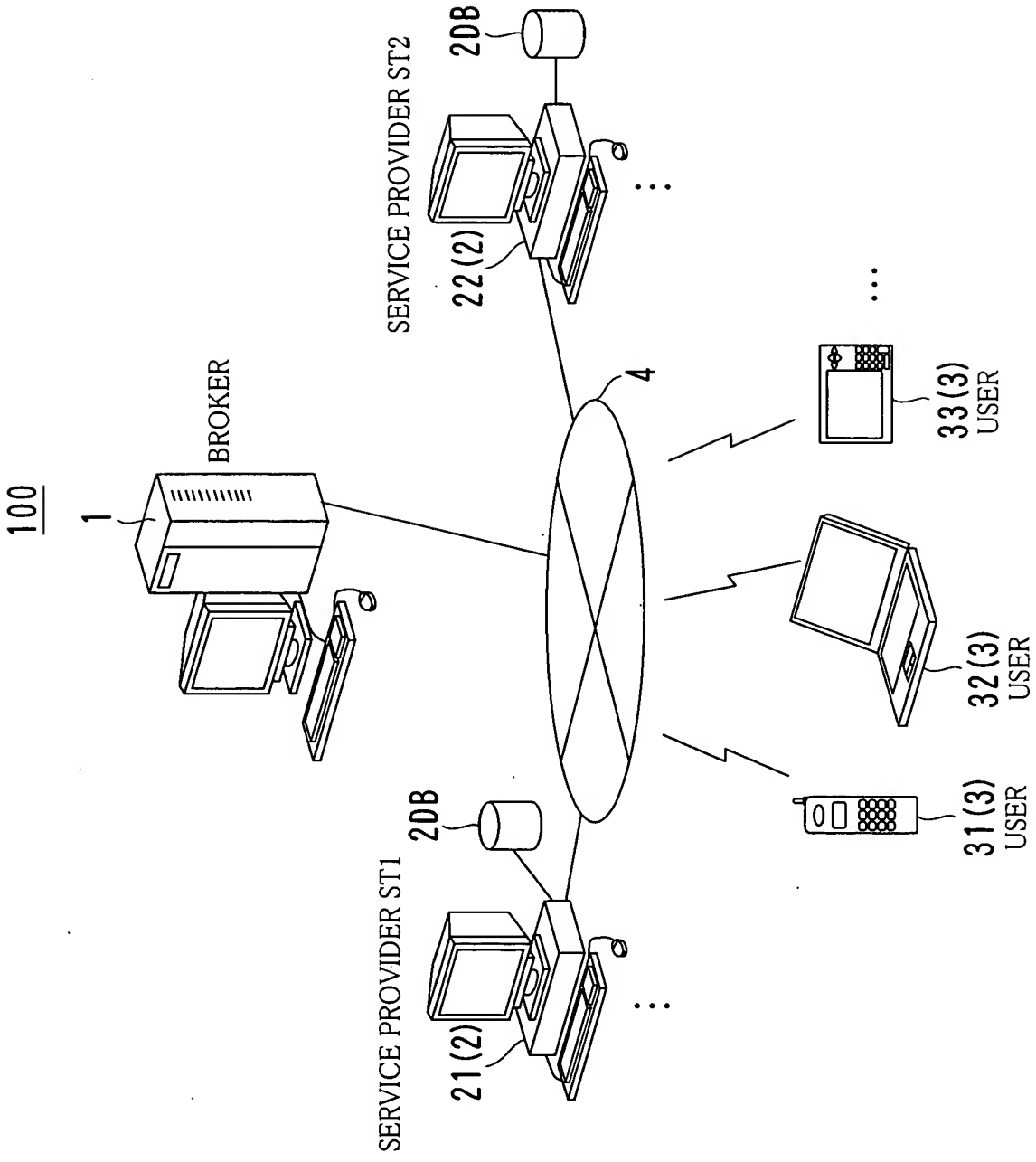

100
1
BROKER
4
SERVICE PROVIDER ST2
2DB
22(2)
SERVICE PROVIDER ST1
2DB
21(2)
33(3)
USER
32(3)
USER
31(3)
USER

FIG. 2

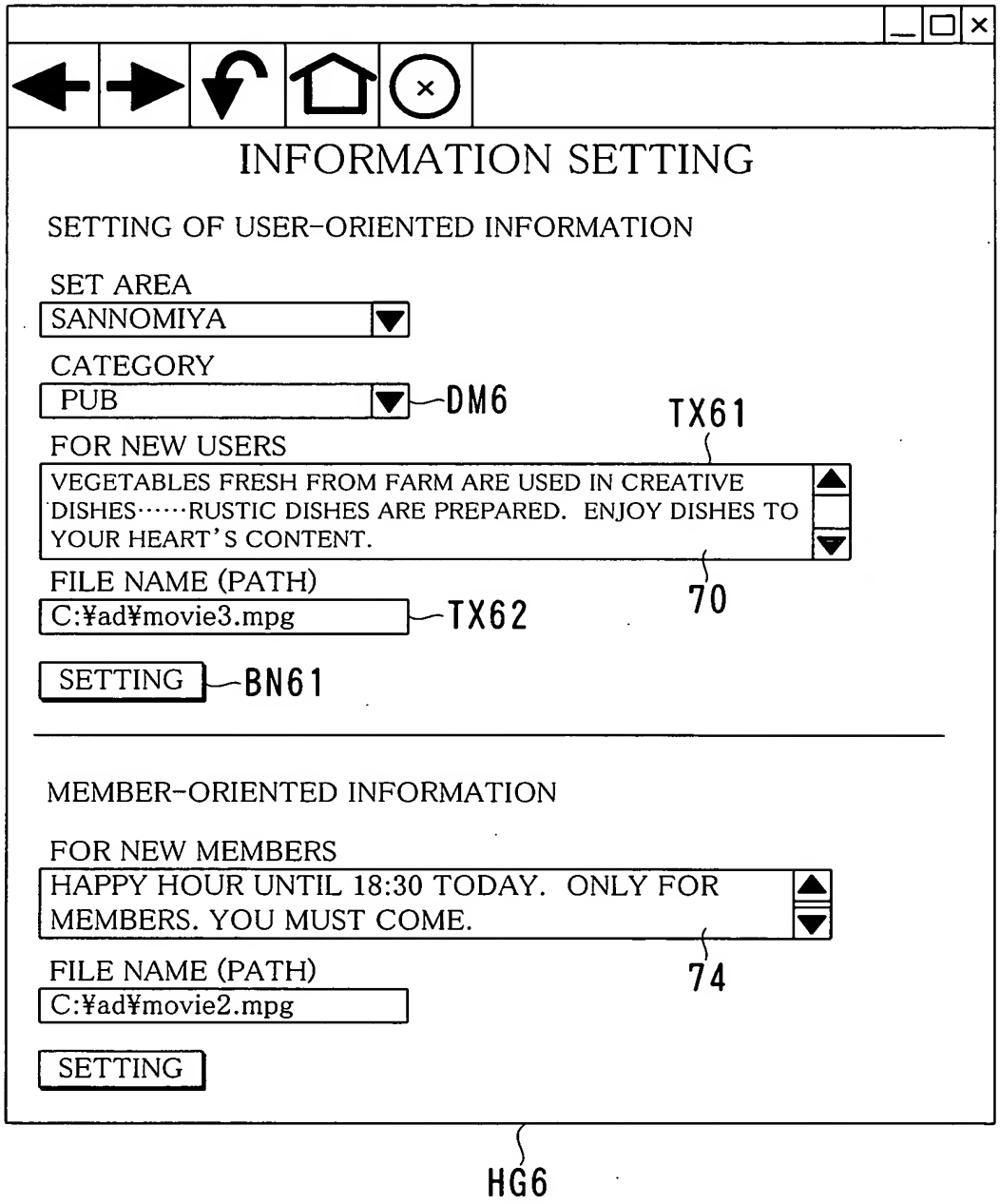

INFORMATION SETTING
SETTING OF USER-ORIENTED INFORMATION
SET AREA
SANNOMIYA
CATEGORY
PUB
DM6
TX61
FOR NEW USERS
VEGETABLES FRESH FROM FARM ARE USED IN CREATIVE DISHES……RUSTIC DISHES ARE PREPARED. ENJOY DISHES TO YOUR HEART'S CONTENT.
70
FILE NAME (PATH)
C:¥ad¥movie3.mpg
TX62
SETTING
BN61
MEMBER-ORIENTED INFORMATION
FOR NEW MEMBERS
HAPPY HOUR UNTIL 18:30 TODAY. ONLY FOR MEMBERS. YOU MUST COME.
74
FILE NAME (PATH)
C:¥ad¥movie2.mpg
SETTING
HG6

FIG. 3

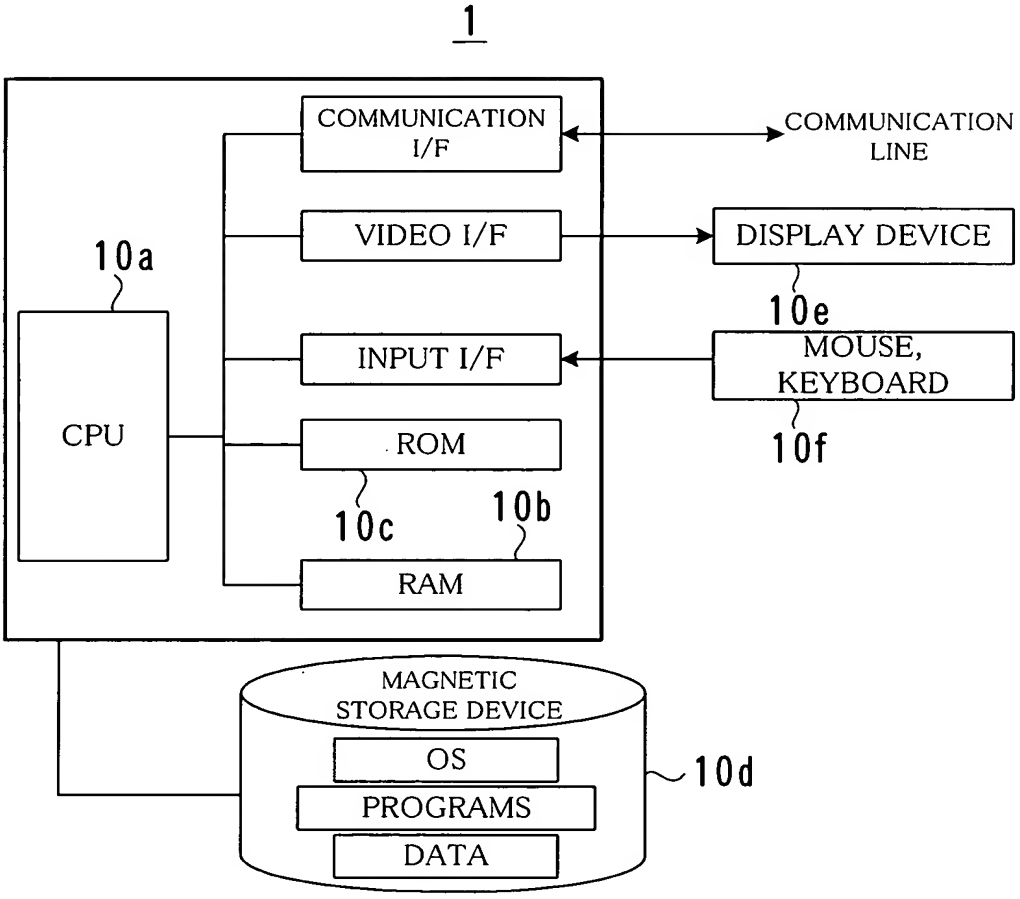

1
COMMUNICATION I/F
COMMUNICATION LINE
VIDEO I/F
DISPLAY DEVICE
10a
10e
INPUT I/F
MOUSE, KEYBOARD
CPU
ROM
10f
10c
10b
RAM
MAGNETIC STORAGE DEVICE
OS
PROGRAMS
DATA
10d

FIG. 4

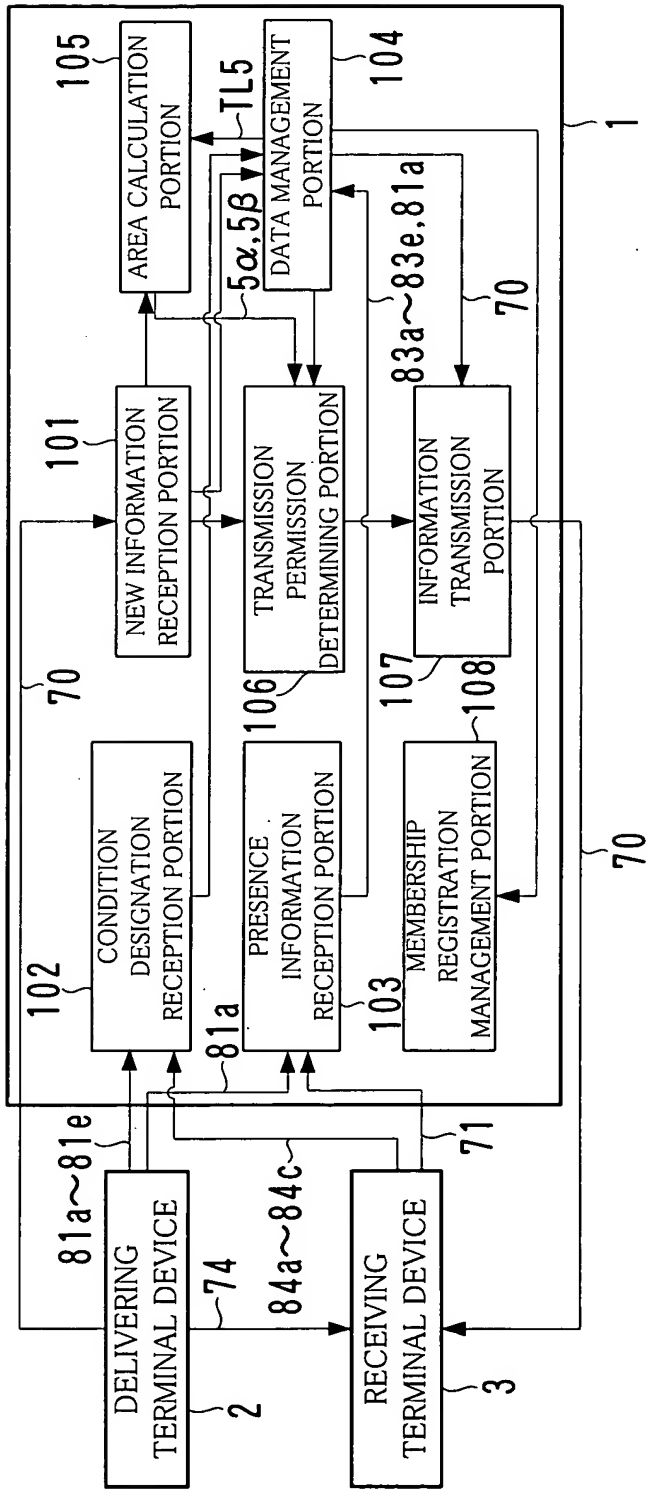

1
105
AREA CALCULATION PORTION
TL5
104
DATA MANAGEMENT PORTION
5α,5β
83a~83e,81a
70
101
NEW INFORMATION RECEPTION PORTION
TRANSMISSION PERMISSION DETERMINING PORTION
INFORMATION TRANSMISSION PORTION
106
107
108
70
102
CONDITION DESIGNATION RECEPTION PORTION
PRESENCE INFORMATION RECEPTION PORTION
MEMBERSHIP REGISTRATION MANAGEMENT PORTION
103
81a
70
81a~81e
71
84a~84c
74
DELIVERING TERMINAL DEVICE
2
RECEIVING TERMINAL DEVICE
3

FIG. 5

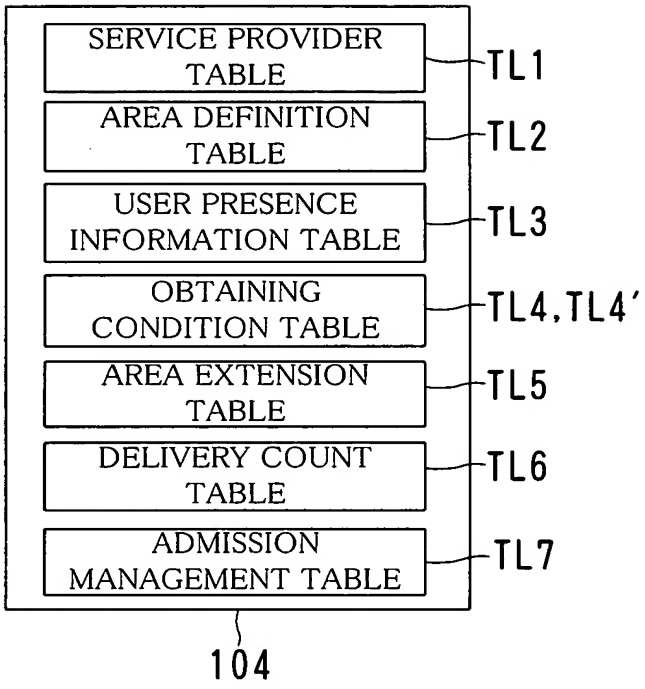

SERVICE PROVIDER TABLE
TL1
AREA DEFINITION TABLE
TL2
USER PRESENCE INFORMATION TABLE
TL3
OBTAINING CONDITION TABLE
TL4,TL4'
AREA EXTENSION TABLE
TL5
DELIVERY COUNT TABLE
TL6
ADMISSION MANAGEMENT TABLE
TL7
104

FIG. 6

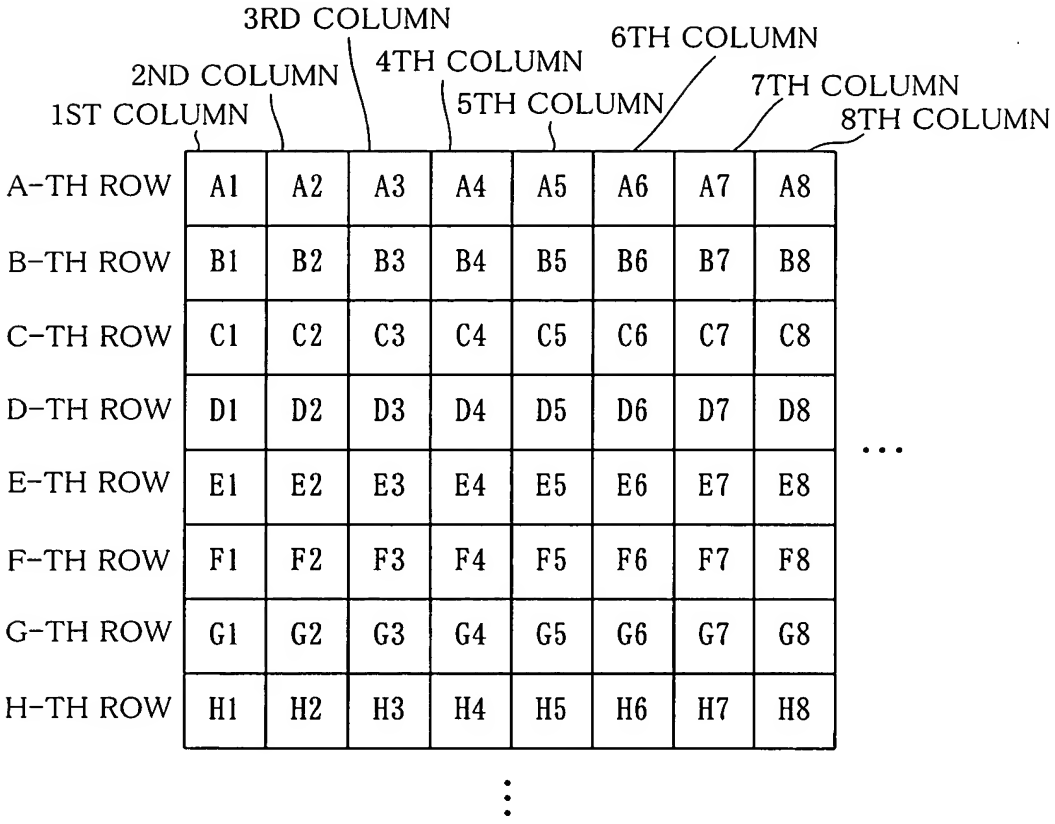

1ST COLUMN
2ND COLUMN
3RD COLUMN
4TH COLUMN
5TH COLUMN
6TH COLUMN
7TH COLUMN
8TH COLUMN
A-TH ROW
B-TH ROW
C-TH ROW
D-TH ROW
E-TH ROW
F-TH ROW
G-TH ROW
H-TH ROW
A1 A2 A3 A4 A5 A6 A7 A8
B1 B2 B3 B4 B5 B6 B7 B8
C1 C2 C3 C4 C5 C6 C7 C8
D1 D2 D3 D4 D5 D6 D7 D8
E1 E2 E3 E4 E5 E6 E7 E8
F1 F2 F3 F4 F5 F6 F7 F8
G1 G2 G3 G4 G5 G6 G7 G8
H1 H2 H3 H4 H5 H6 H7 H8

FIG. 7

TL2

AREA ID	LOCATION
A1	N350000E1350000
A2	N350000E1350010
⋮	⋮

FIG. 8

TL1

PROVIDER ID	LOCATION INFORMATION	CATEGORY INFORMATION	MEMBERSHIP REGISTRATION ADDRESS	DELIVERY-RELATED INFORMATION (STORAGE PLACE)	DELIVERY AREA INFORMATION
B001	C5	CAFÉ	http://member.~	http://www.~	PERIPHERY = 1
B002	B4	PUB	http://www.~	VEGETABLES FRESH FROM FARM ARE…	PERIPHERY = 2,C7,B1-C3
…	…	…	…	…	…

81a 81b 81c 81d 81e

FIG. 9

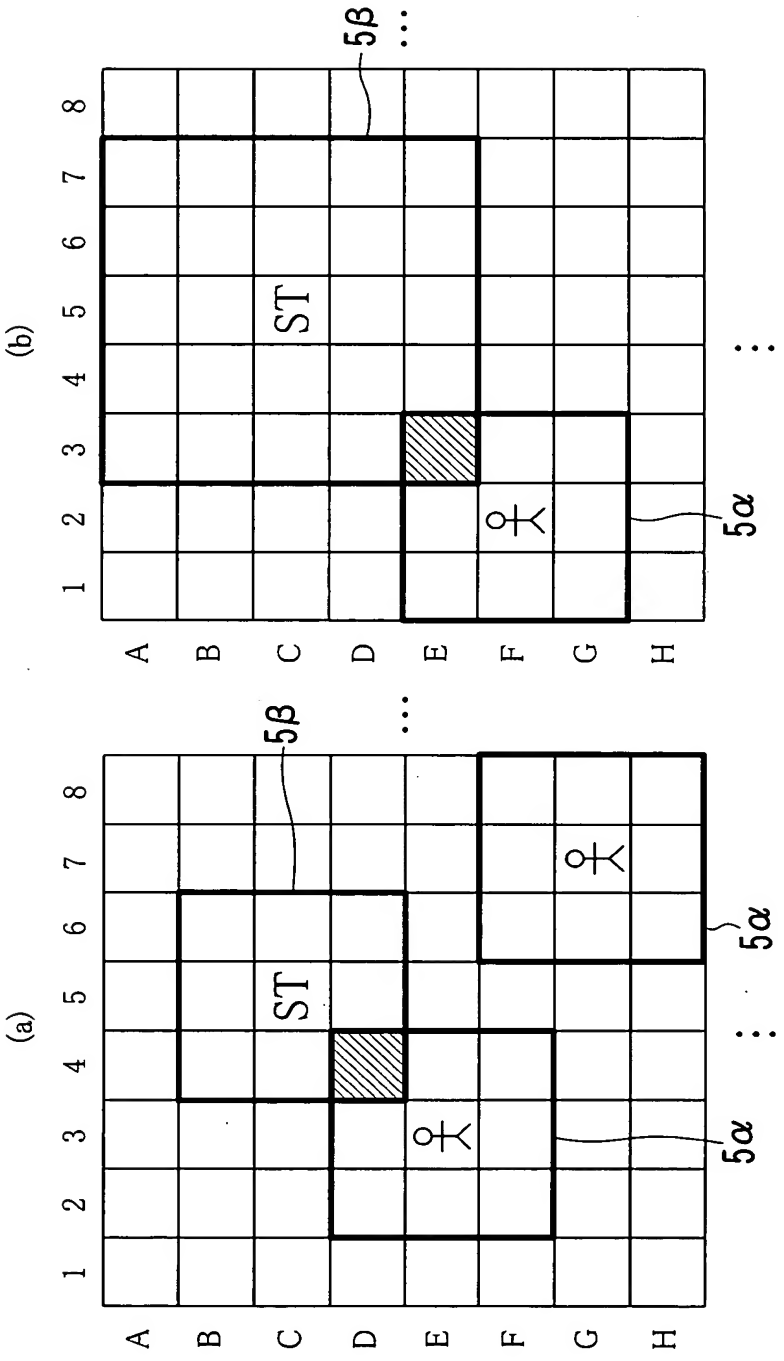


FIG. 10

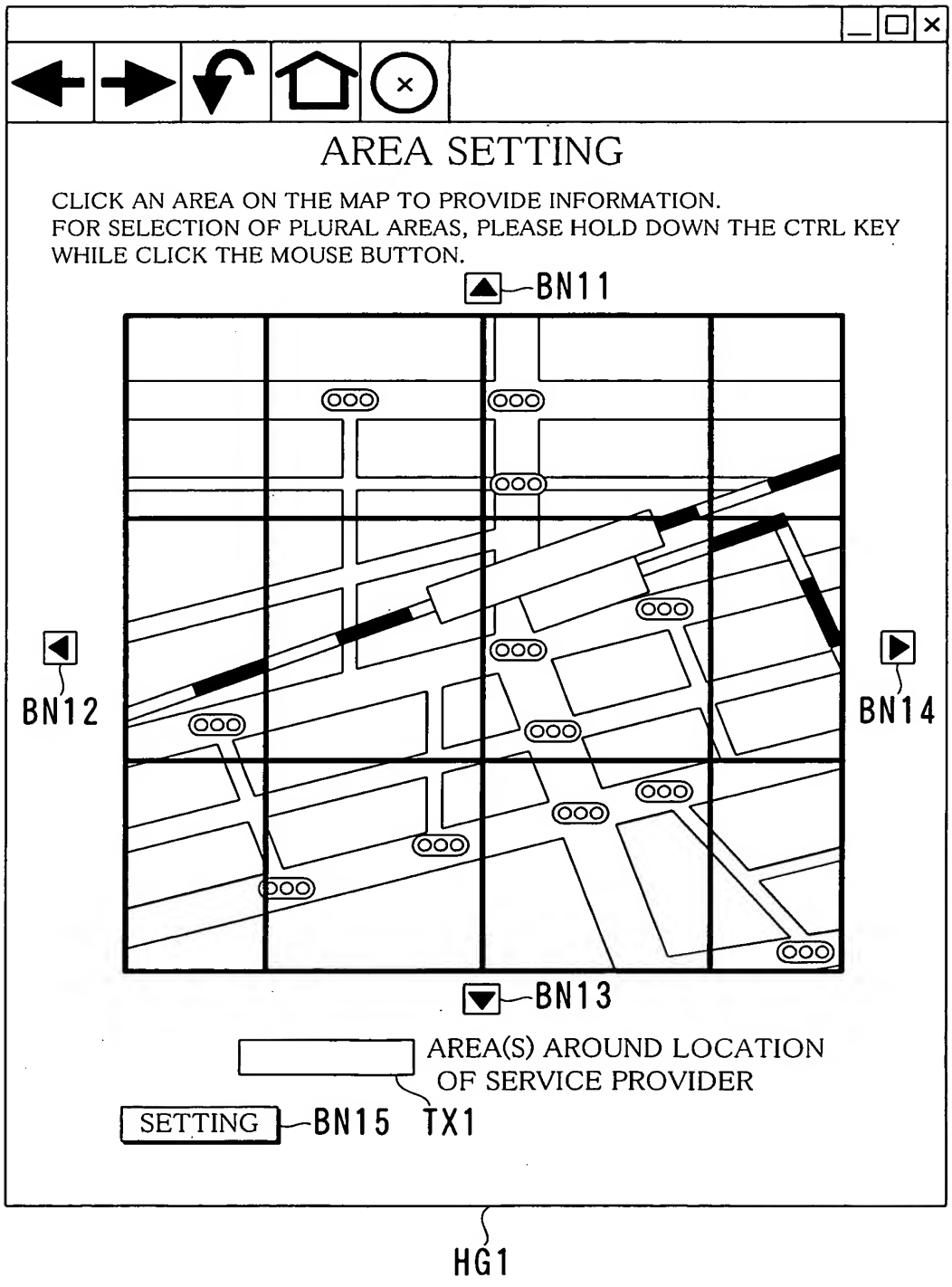

AREA SETTING
CLICK AN AREA ON THE MAP TO PROVIDE INFORMATION.
FOR SELECTION OF PLURAL AREAS, PLEASE HOLD DOWN THE CTRL KEY WHILE CLICK THE MOUSE BUTTON.
BN11
BN12
BN13
BN14
AREA(S) AROUND LOCATION OF SERVICE PROVIDER
SETTING
BN15
TX1
HG1

FIG. 11

TL3

USER ID	TERMINAL TYPE INFORMATION	ADDRESS INFORMATION	LOCATION INFORMATION	SPEED INFORMATION	DIRECTION INFORMATION
A001	MOBILE TELEPHONE TERMINAL	taro@abc.xx.com	B3	15km/h	NORTHWEST
A002	NOTEBOOK-SIZED PERSONAL COMPUTER	jiro@xxx.yyy.ne.jp	C4	35km/h	SOUTH
⋮	⋮	⋮	⋮	⋮	⋮

83a 83b 83c 83d 83e

FIG. 12

(a)

TL4

USER ID	AREA CONDITION INFORMATION	DISTANCE CONDITION
A001	PERIPHERY = 1	ONE AREA
A002	PERIPHERY = 2,C7	TWO AREAS
⋮	⋮	⋮

84a 84b

(b)

TL4'

USER ID	CATEGORY	AREA CONDITION INFORMATION	DISTANCE CONDITION
A001	CAFÉ	PERIPHERY=1	ONE AREA
	PUB	PERIPHERY=0	TWO AREAS
A002	RESTAURANT	PERIPHERY=2,C7	ONE AREA
	ACCOMMODATION FACILITY	PERIPHERY=1,C6	TWO AREAS
⋮	⋮	⋮	⋮

84c 84a 84b

FIG. 13

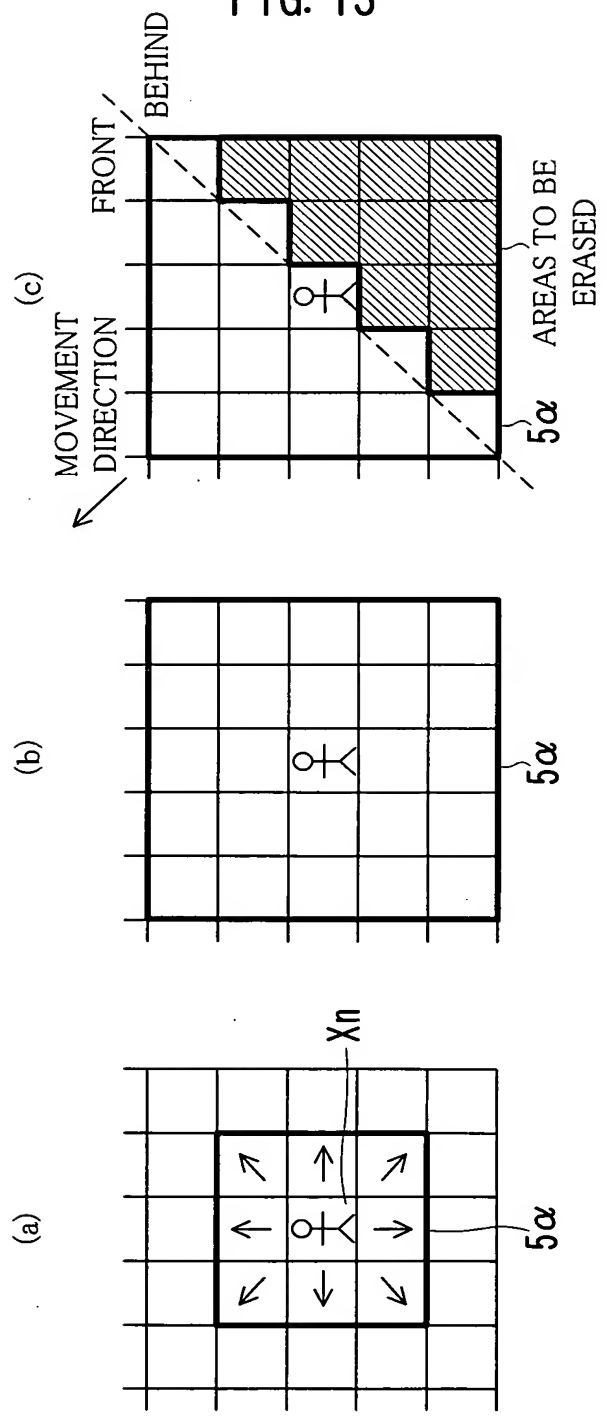

(c)
MOVEMENT DIRECTION
FRONT
BEHIND
AREAS TO BE ERASED
5α
(b)
5α
(a)
Xn
5α

FIG. 14

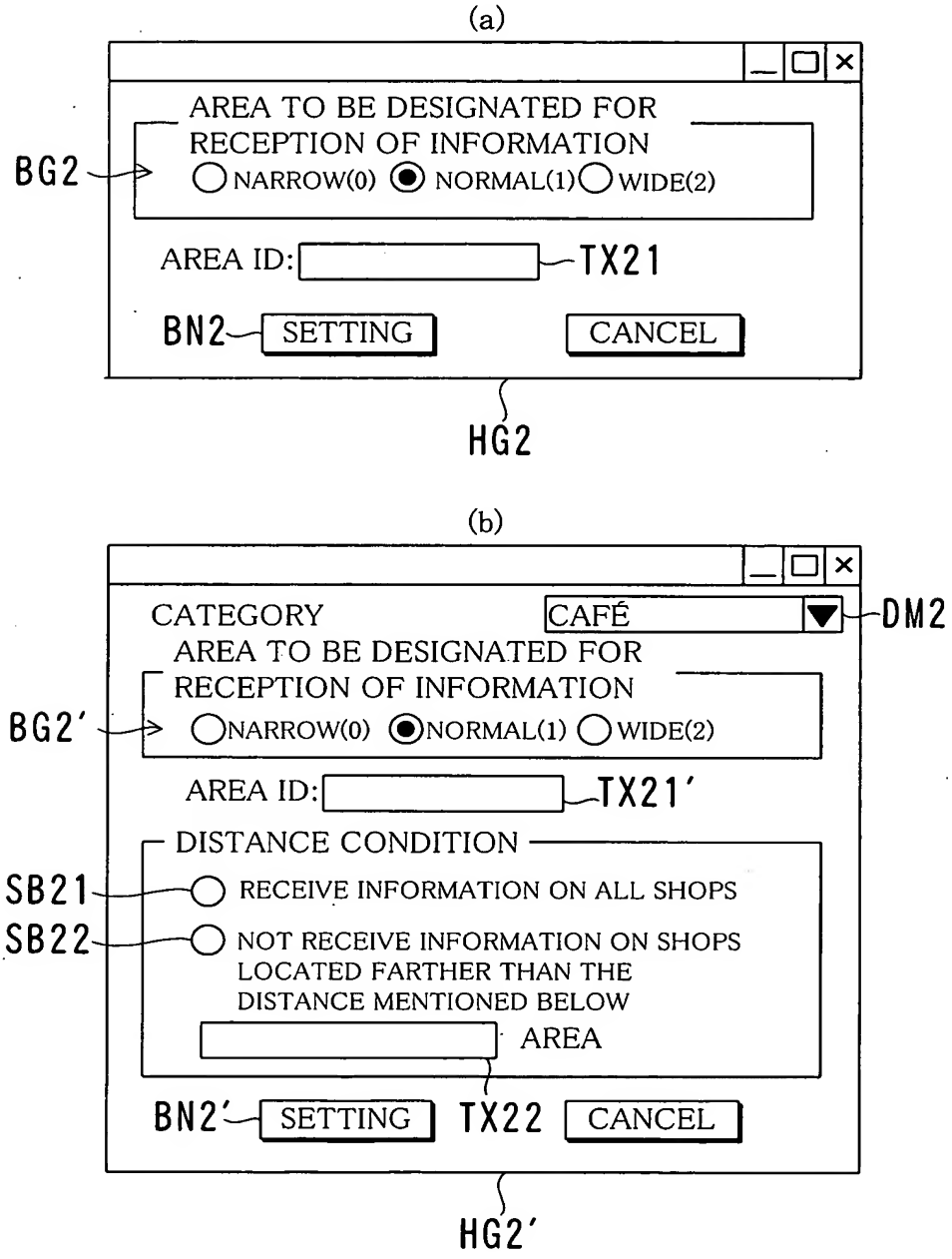

(a)
AREA TO BE DESIGNATED FOR RECEPTION OF INFORMATION
BG2
NARROW(0) NORMAL(1) WIDE(2)
AREA ID:
TX21
BN2
SETTING
CANCEL
HG2
(b)
CATEGORY
CAFÉ
DM2
AREA TO BE DESIGNATED FOR RECEPTION OF INFORMATION
BG2'
NARROW(0) NORMAL(1) WIDE(2)
AREA ID:
TX21'
DISTANCE CONDITION
SB21
RECEIVE INFORMATION ON ALL SHOPS
SB22
NOT RECEIVE INFORMATION ON SHOPS LOCATED FARTHER THAN THE DISTANCE MENTIONED BELOW
AREA
BN2'
SETTING
TX22
CANCEL
HG2'

FIG. 15

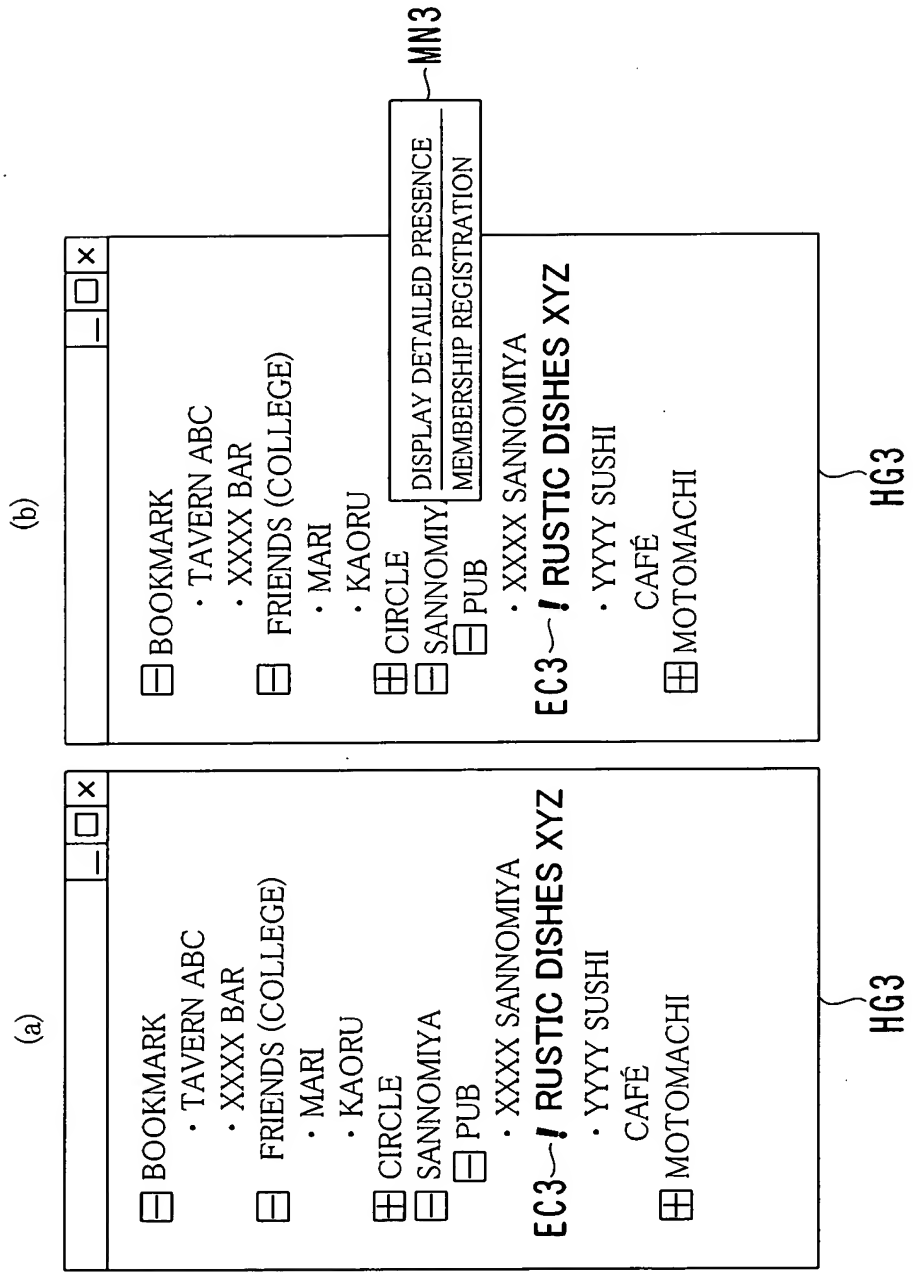

(a)
BOOKMARK
· TAVERN ABC
· XXXX BAR
FRIENDS (COLLEGE)
· MARI
· KAORU
CIRCLE
SANNOMIYA
PUB
· XXXX SANNOMIYA
EC3 ! RUSTIC DISHES XYZ
· YYYY SUSHI
CAFÉ
MOTOMACHI
HG3
(b)
BOOKMARK
· TAVERN ABC
· XXXX BAR
FRIENDS (COLLEGE)
· MARI
· KAORU
CIRCLE
SANNOMIYA
PUB
· XXXX SANNOMIYA
EC3 ! RUSTIC DISHES XYZ
· YYYY SUSHI
CAFÉ
MOTOMACHI
DISPLAY DETAILED PRESENCE
MEMBERSHIP REGISTRATION
MN3
HG3

FIG. 16

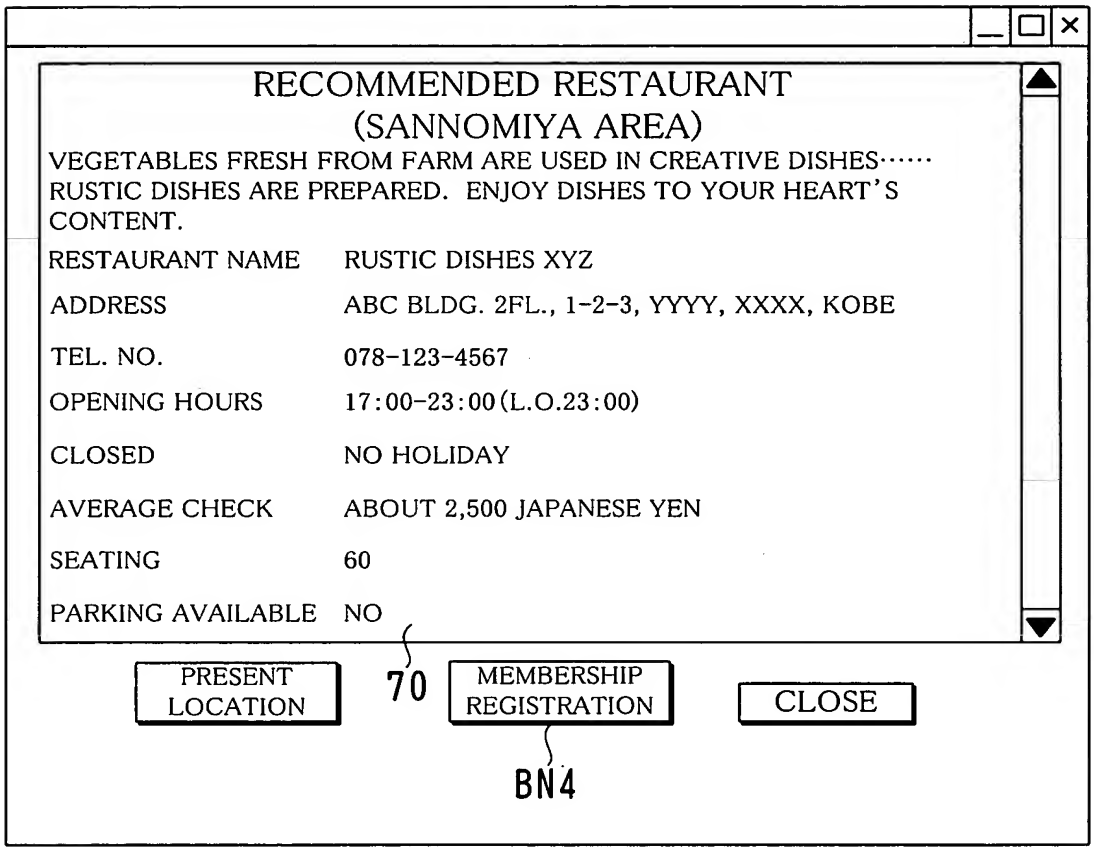

RECOMMENDED RESTAURANT
(SANNOMIYA AREA)
VEGETABLES FRESH FROM FARM ARE USED IN CREATIVE DISHES……
RUSTIC DISHES ARE PREPARED. ENJOY DISHES TO YOUR HEART'S CONTENT.
RESTAURANT NAME RUSTIC DISHES XYZ
ADDRESS ABC BLDG. 2FL., 1-2-3, YYYY, XXXX, KOBE
TEL. NO. 078-123-4567
OPENING HOURS 17:00-23:00(L.O.23:00)
CLOSED NO HOLIDAY
AVERAGE CHECK ABOUT 2,500 JAPANESE YEN
SEATING 60
PARKING AVAILABLE NO
PRESENT LOCATION
70
MEMBERSHIP REGISTRATION
CLOSE
BN4

FIG. 17

TL5

SPEED (km/h)	EXTENSION QUANTITY (THE NUMBER OF EXTENSION AREAS IN EACH DIRECTION)
NO MOVEMENT	0
1 OR MORE TO LESS THAN 30	+1
30 OR MORE TO LESS THAN 60	+2
60 OR MORE TO LESS THAN 90	+3
90 OR MORE	+4

FIG. 18

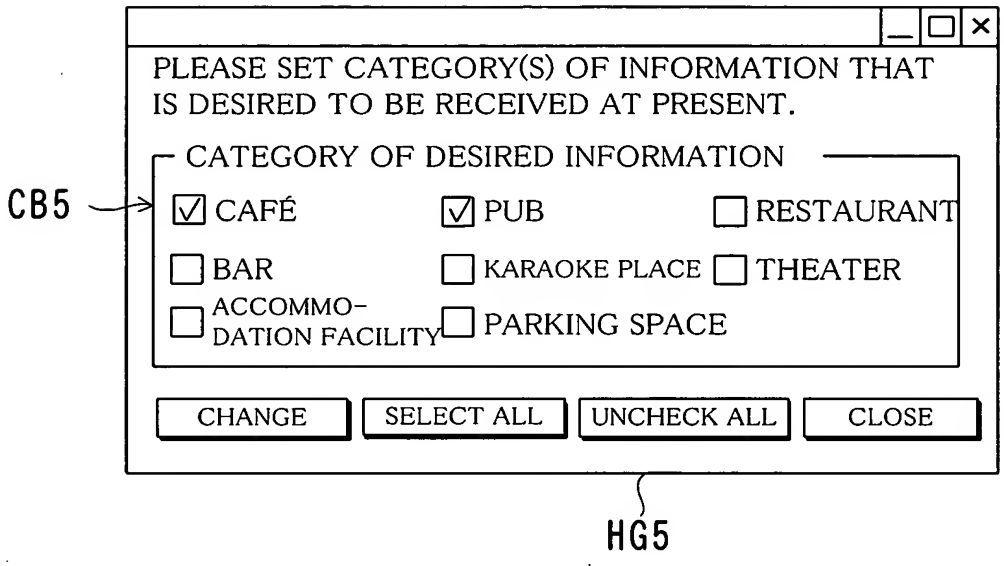

PLEASE SET CATEGORY(S) OF INFORMATION THAT IS DESIRED TO BE RECEIVED AT PRESENT.
CATEGORY OF DESIRED INFORMATION
CB5
CAFÉ
PUB
RESTAURANT
BAR
KARAOKE PLACE
THEATER
ACCOMMO-DATION FACILITY
PARKING SPACE
CHANGE
SELECT ALL
UNCHECK ALL
CLOSE
HG5

FIG. 19

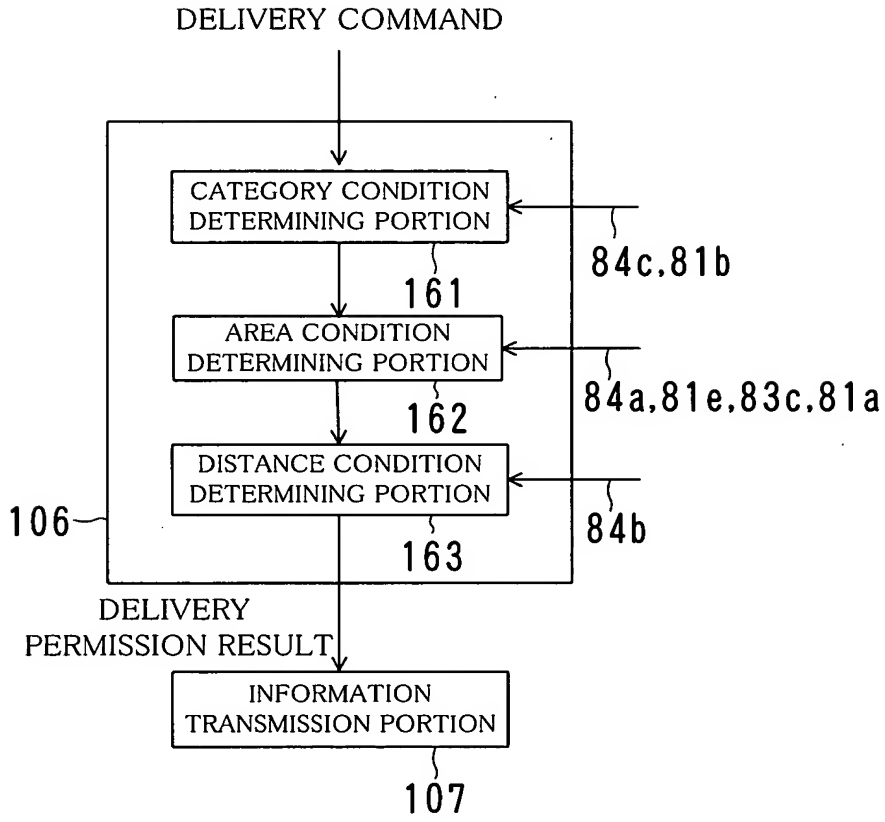

DELIVERY COMMAND
CATEGORY CONDITION DETERMINING PORTION
84c,81b
161
AREA CONDITION DETERMINING PORTION
84a,81e,83c,81a
162
DISTANCE CONDITION DETERMINING PORTION
84b
106
163
DELIVERY PERMISSION RESULT
INFORMATION TRANSMISSION PORTION
107

FIG. 20

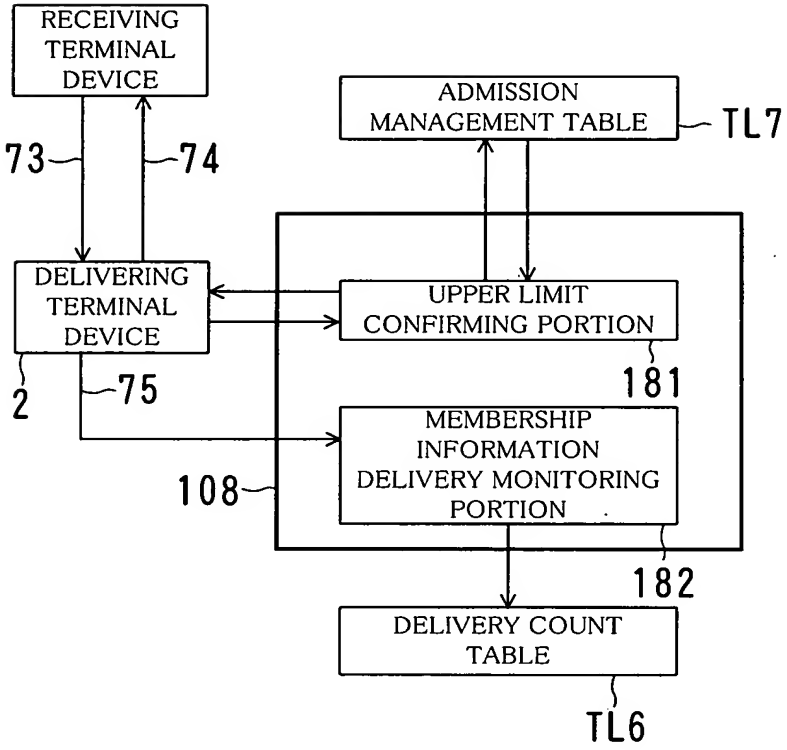

RECEIVING TERMINAL DEVICE
ADMISSION MANAGEMENT TABLE
TL7
73
74
DELIVERING TERMINAL DEVICE
UPPER LIMIT CONFIRMING PORTION
181
2
75
MEMBERSHIP INFORMATION DELIVERY MONITORING PORTION
108
182
DELIVERY COUNT TABLE
TL6

FIG. 21

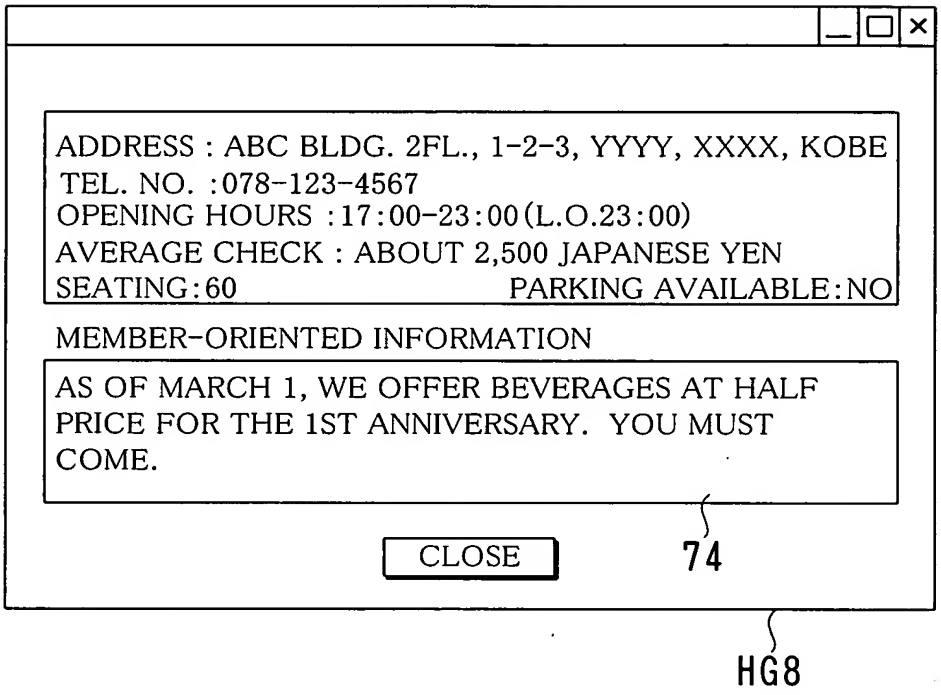

ADDRESS : ABC BLDG. 2FL., 1-2-3, YYYY, XXXX, KOBE
TEL. NO. :078-123-4567
OPENING HOURS :17:00-23:00(L.O.23:00)
AVERAGE CHECK : ABOUT 2,500 JAPANESE YEN
SEATING:60 PARKING AVAILABLE:NO
MEMBER-ORIENTED INFORMATION
AS OF MARCH 1, WE OFFER BEVERAGES AT HALF PRICE FOR THE 1ST ANNIVERSARY. YOU MUST COME.
CLOSE
74
HG8

FIG. 22

TL6

USER (USER ID)	SERVICE PROVIDER (PROVIDER ID)	THE NUMBER OF NOTIFICATIONS
A001	B001	3
A001	B002	5
A002	B002	5
⋮	⋮	⋮

FIG. 23

TL7

USER ID	REGISTRATION ADDRESS	THE NUMBER OF MEMBERSHIPS	UPPER LIMIT OF THE NUMBER OF MEMBERSHIPS
A001	taro@abc.xx.com	12	15
A002	jiro@xxx.yyy.ne.jp	10	10
⋮	⋮	⋮	⋮

FIG. 24

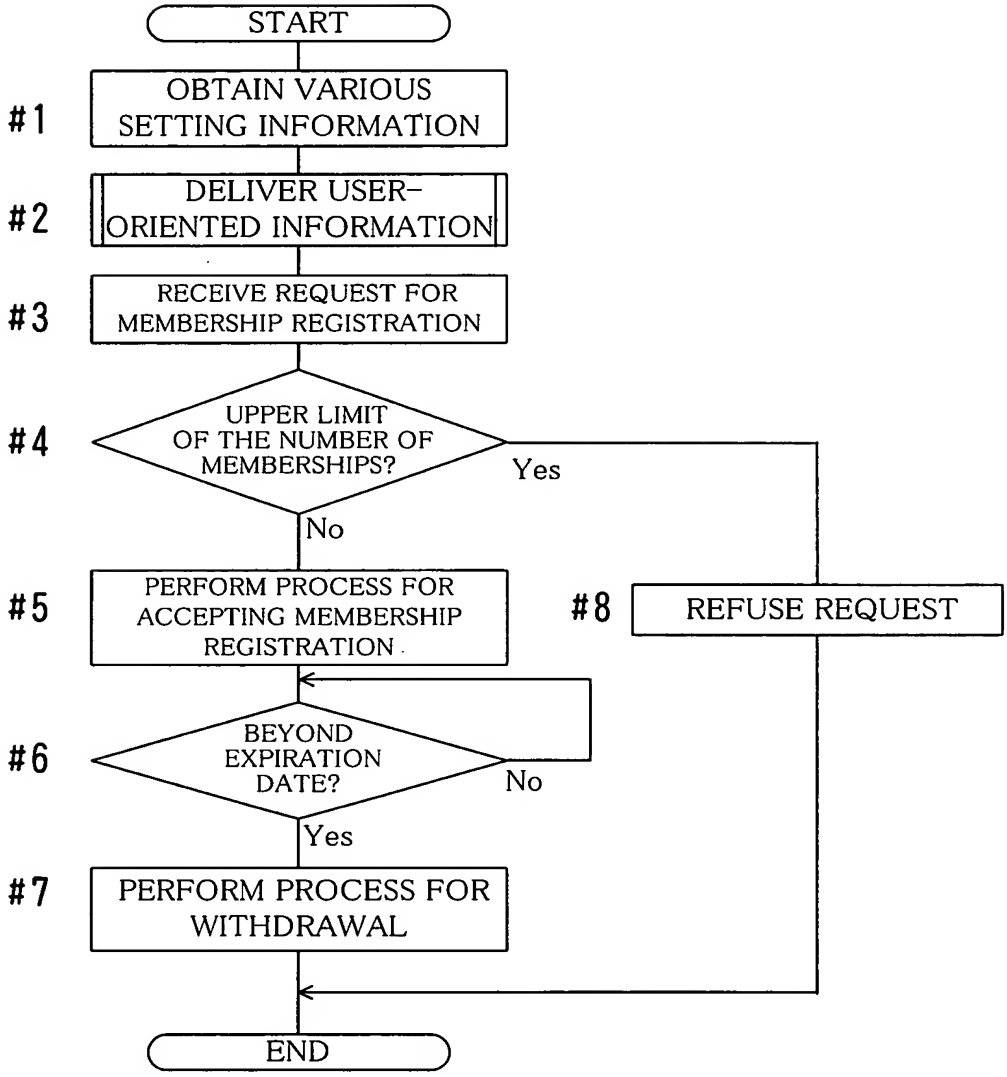

START
#1
OBTAIN VARIOUS SETTING INFORMATION
#2
DELIVER USER-ORIENTED INFORMATION
#3
RECEIVE REQUEST FOR MEMBERSHIP REGISTRATION
#4
UPPER LIMIT OF THE NUMBER OF MEMBERSHIPS?
Yes
No
#5
PERFORM PROCESS FOR ACCEPTING MEMBERSHIP REGISTRATION
#8
REFUSE REQUEST
#6
BEYOND EXPIRATION DATE?
No
Yes
#7
PERFORM PROCESS FOR WITHDRAWAL
END

FIG. 25

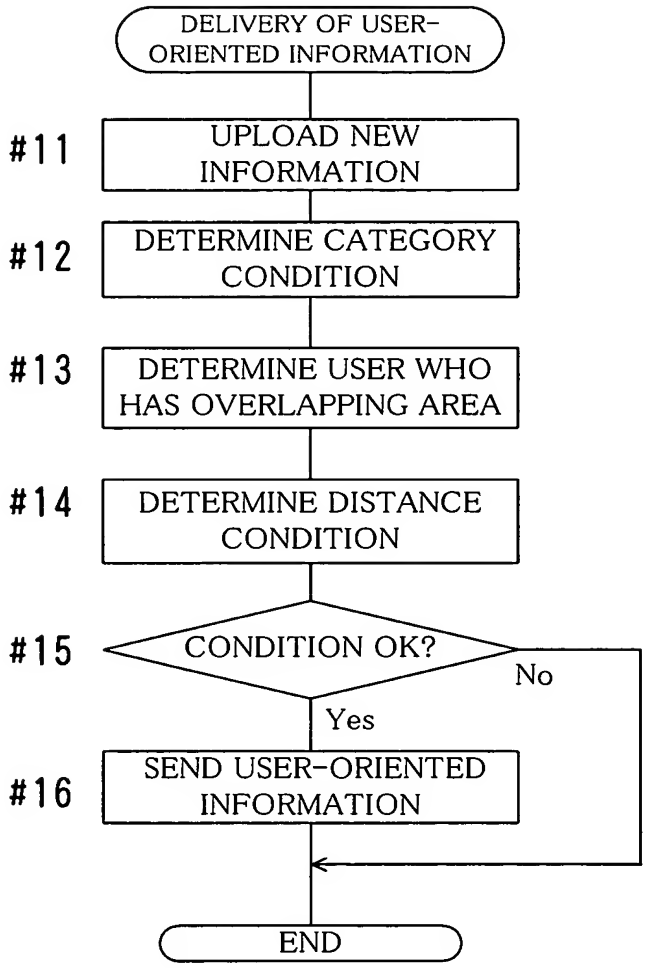

DELIVERY OF USER-ORIENTED INFORMATION
#11
UPLOAD NEW INFORMATION
#12
DETERMINE CATEGORY CONDITION
#13
DETERMINE USER WHO HAS OVERLAPPING AREA
#14
DETERMINE DISTANCE CONDITION
#15
CONDITION OK?
No
Yes
#16
SEND USER-ORIENTED INFORMATION
END

FIG. 26

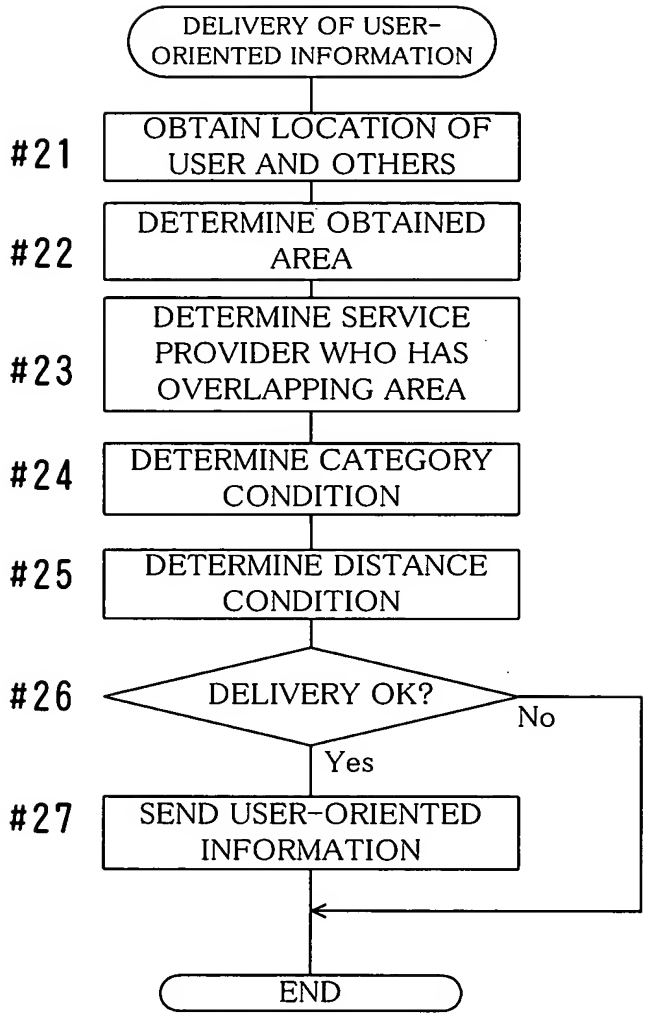

DELIVERY OF USER-ORIENTED INFORMATION
#21
OBTAIN LOCATION OF USER AND OTHERS
#22
DETERMINE OBTAINED AREA
#23
DETERMINE SERVICE PROVIDER WHO HAS OVERLAPPING AREA
#24
DETERMINE CATEGORY CONDITION
#25
DETERMINE DISTANCE CONDITION
#26
DELIVERY OK?
No
Yes
#27
SEND USER-ORIENTED INFORMATION
END

FIG. 27

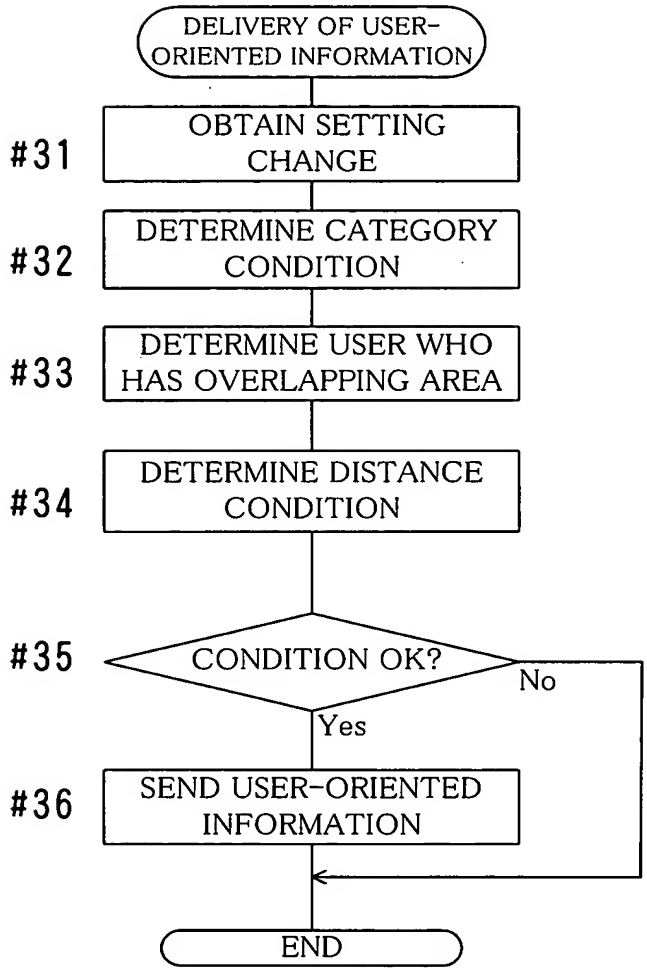
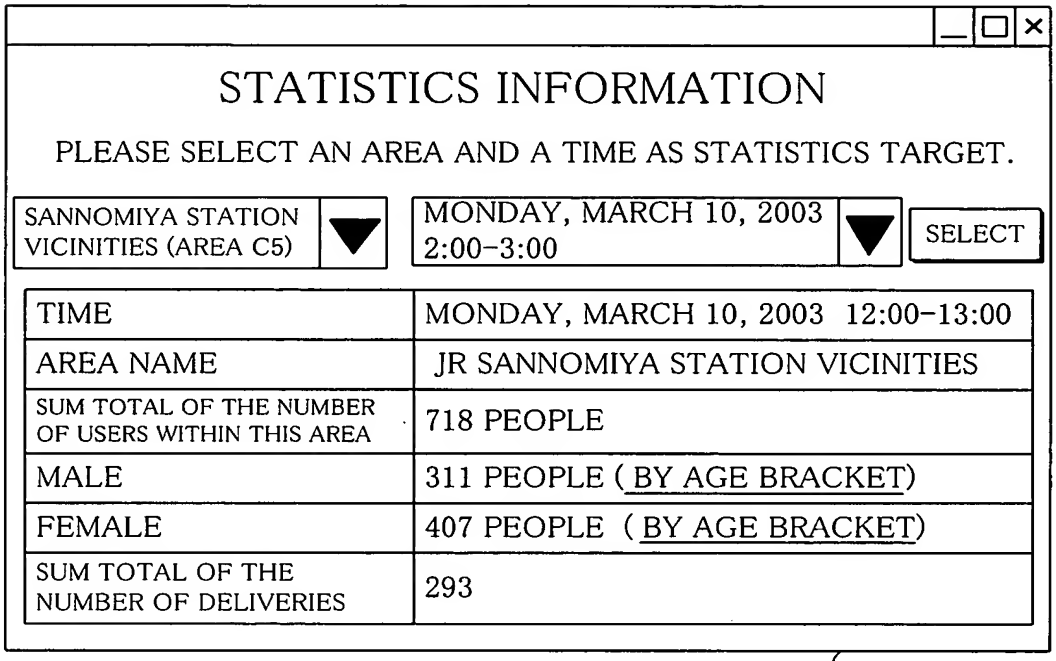

DELIVERY OF USER-ORIENTED INFORMATION
#31
OBTAIN SETTING CHANGE
#32
DETERMINE CATEGORY CONDITION
#33
DETERMINE USER WHO HAS OVERLAPPING AREA
#34
DETERMINE DISTANCE CONDITION
#35
CONDITION OK?
No
Yes
#36
SEND USER-ORIENTED INFORMATION
END

FIG. 28


STATISTICS INFORMATION
PLEASE SELECT AN AREA AND A TIME AS STATISTICS TARGET.
SANNOMIYA STATION VICINITIES (AREA C5)
MONDAY, MARCH 10, 2003 2:00-3:00
SELECT
TIME
MONDAY, MARCH 10, 2003 12:00-13:00
AREA NAME
JR SANNOMIYA STATION VICINITIES
SUM TOTAL OF THE NUMBER OF USERS WITHIN THIS AREA
718 PEOPLE
MALE
311 PEOPLE (BY AGE BRACKET)
FEMALE
407 PEOPLE (BY AGE BRACKET)
SUM TOTAL OF THE NUMBER OF DELIVERIES
293

HG7